

301.1 - Particle Size (powder and solid forms)

These SRMs are intended for evaluating and calibrating specific types of particle size measuring instruments, including light scattering, electrical zone flow-through counters, optical and scanning electron microscopes, sedimentation systems, and wire cloth sieving devices.

SRMs 1003c, 1004b, 1017b, 1018b and 1019b each consist of soda-lime glass beads covering a particular size distribution (PSD) range. RM 8010 is a three bottle set of different sands (A, C and D), intended for use in sieving only, and covers the sieve size range from 30 mesh to 325 mesh.

SRM 659 consists of equiaxed silicon nitride particles measured using sedimentation. SRM 1978 consists of granular, irregular shaped zirconium oxide particles measured using sedimentation. SRM 1982 consists of spheroidal particles measured using scanning electron microscopy, laser scattering, and sieving.

SRM 1961 is monodisperse latex particles in a water suspension produced by the National Aeronautics and Space Administration (NASA).

RMs 8011, 8012 and 8013 are gold nanoparticles in water.

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	659	1003c	1017b	1018b	1019b	1021	1690	1691	1961	1963a	1964	1978	1982	1984	1985	8010	8011	8012
Description	Particle Size Distribution Standard for Sedigraph Calibration	Glass Beads - Particle Size Distribution	Glass Beads - Particle Size Distribution (100 µm to 400 µm diameter range)	Glass (Particle Size)	Glass (Particle Size)	Glass (Particle Size)	Polystyrene Spheres (Nominal Diameter 1 µm)	Polystyrene Spheres (Nominal Diameter 0.3 µm)	Polystyrene Spheres 30 µm Diameter Polystyrene Spheres	Polystyrene Spheres (Nominal Diameter 100 nm)	Polystyrene Spheres (Nominal Diameter 60 nm)	Particles Size Distribution Standard for Gravity Sedimentation	Thermal Spray Powder - Particle Size Distribution Ytria-Stabilized Zirconia (Spheroidal)	Thermal Spray Powder - Particle Size Distribution Tungsten Carbide/Cobalt (Acicular)	Thermal Spray Powder - Particle Size Distribution Tungsten Carbide/Cobalt (Spheroidal)	Sand for Sand Sieve Analysis	Gold Nanoparticles (Nominal 10 nm Diameter)	Gold Nanoparticles, Nominal 30 nm Diameter
Unit Size	(set (5))	(28 g)	(70 g)	(87 g)	(200 g)	(4 g)	(5 mL)	(5 mL)	(5 mL)	(5 mL)	(5 mL)	(5 g)	(10 g)	(14 g)	(14 g)	(3 x 130 g)	(2 x 5 mL)	(2 x 5 mL)

Particle Diameter Distribution	0.2 to 10 µm	20 to 45 µm (635 to 325 mesh)	100 to 400 µm (140 to 45 mesh)	220 to 750 µm (60 to 25 mesh)	750 to 2450 µm (20 to 10 mesh)	2 to 12 µm	0.895 µm	0.269 µm	29.64 µm	0.1018 µm	0.06039 µm	0.33 to 2.19 µm	10 to 150 µm	9 to 30 µm	18 to 55 µm	A (30 to 100 mesh) C (70 to 200 mesh) D (100 to 325 mesh)	10 nm	30 nm
--------------------------------	--------------	-------------------------------	--------------------------------	-------------------------------	--------------------------------	------------	----------	----------	----------	-----------	------------	-----------------	--------------	------------	-------------	---	-------	-------

- Certified values are normal font
- Reference values are italicized
- Values in parentheses are for information only

301.1 - Particle Size (powder and solid forms)

These SRMs are intended for evaluating and calibrating specific types of particle size measuring instruments, including light scattering, electrical zone flow-through counters, optical and scanning electron microscopes, sedimentation systems, and wire cloth sieving devices.

SRMs 1003c, 1004b, 1017b, 1018b and 1019b each consist of soda-lime glass beads covering a particular size distribution (PSD) range. RM 8010 is a three bottle set of different sands (A, C and D), intended for use in sieving only, and covers the sieve size range from 30 mesh to 325 mesh.

SRM 659 consists of equiaxed silicon nitride particles measured using sedimentation. SRM 1978 consists of granular, irregular shaped zirconium oxide particles measured using sedimentation. SRM 1982 consists of spheroidal particles measured using scanning electron microscopy, laser scattering, and sieving.

SRM 1961 is monodisperse latex particles in a water suspension produced by the National Aeronautics and Space Administration (NASA).

RMs 8011, 8012 and 8013 are gold nanoparticles in water.

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

8013	8634
Gold Nanoparticles, Nominal 60 nm Diameter (2 x 5 mL)	Ethylene Tetrafluoroethylene for Particle Size Distribution and Morphology (20 mL)
60 nm	highly polydisperse, irregular morphology

- Certified values are normal font
- Reference values are italicized
- Values in parentheses are for information only